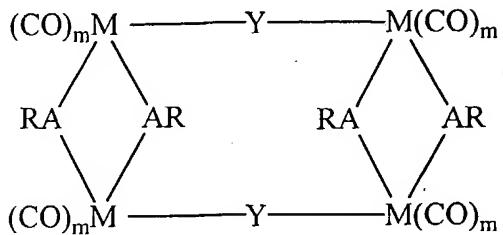


In the claims:

1. (Currently Amended) A rectangular supramolecule having the following structure:



wherein

M is Re, Mn, Cr, Mo, W, Fe, Ru, or Os;

Y is a nitrogen-based didentate ligand;

A is O, S, Se, or Te;

R is C<sub>3</sub>~C<sub>16</sub> alkyl, (CH<sub>2</sub>)<sub>n</sub>-aryl, or (CH<sub>2</sub>)<sub>n</sub>-aryl-(O-C<sub>1</sub>~C<sub>16</sub> alkyl)<sub>p</sub>, in which n is 0-15, p is 1-3; and

m is 1, 2, 3, 4, or 5 1-5.

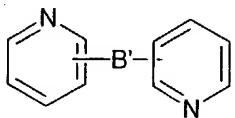
2. (Original) The rectangular supramolecule of claim 1, wherein M is Re.

3. (Original) The rectangular supramolecule of claim 2, wherein m is 3.

4. (Original) The rectangular supramolecule of claim 1, wherein R is C<sub>3</sub>~C<sub>16</sub> straight chain alkyl.

5. (Original) The rectangular supramolecule of claim 1, wherein A is O.

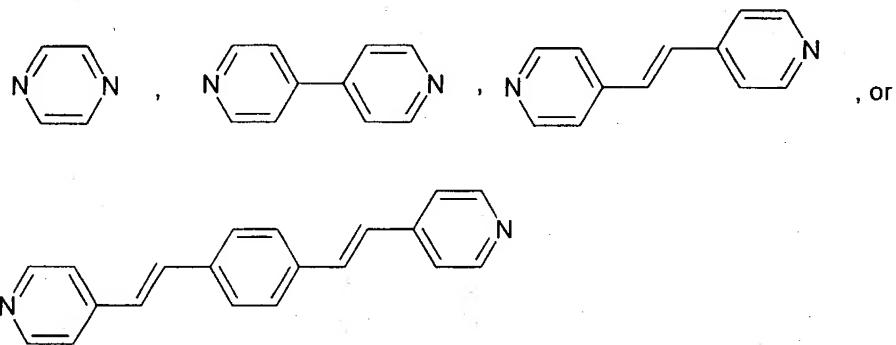
6. (Original) The rectangular supramolecule of claim 1, wherein Y is diazine or a ligand of the formula:



wherein B' is a bond, alkyl, alkenyl, alkynyl, cyclyl, heterocyclyl, aryl, or heteroaryl.

7. (Original) The rectangular supramolecule of claim 6, B' is a bond, alkenyl, alkynyl, or aryl.

8. (Original) The rectangular supramolecule of claim 6, wherein Y is

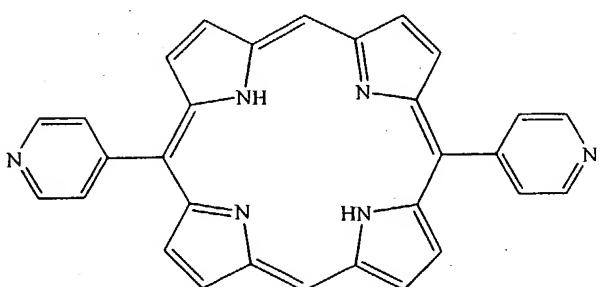
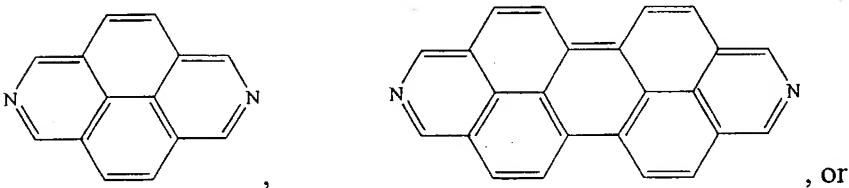
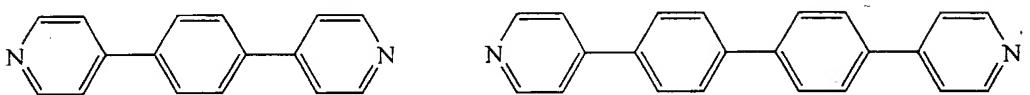
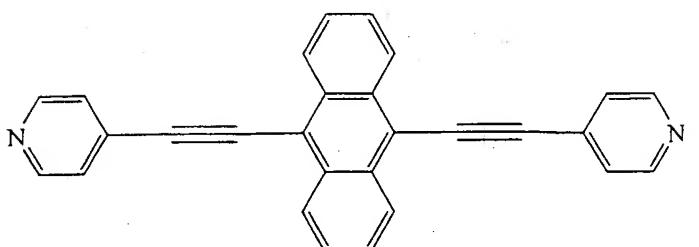
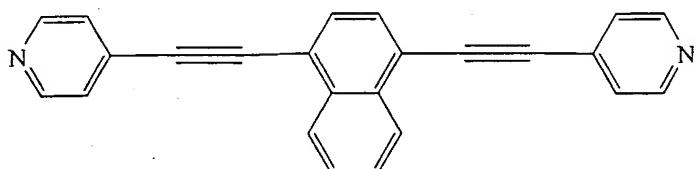
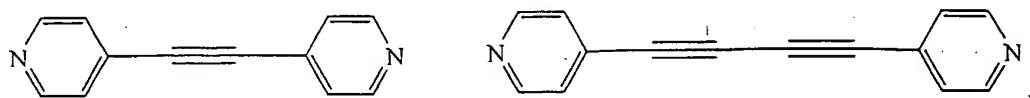


9. (Original) The rectangular supramolecule of claim 6, wherein M is Re, and m is 3.

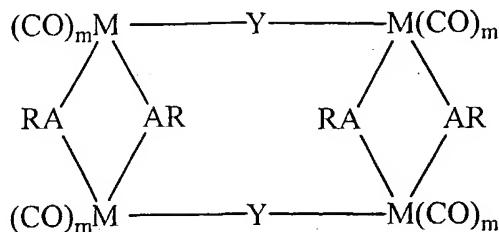
10. (Original) The rectangular supramolecule of claim 6, wherein R is C<sub>3</sub>~C<sub>16</sub> straight chain alkyl.

11. (Original) The rectangular supramolecule of claim 6, wherein A is O.

12. (Original) The rectangular supramolecule of claim 6, wherein Y is



13. (Currently Amended) A method for making a rectangular supramolecule having the following structure:



wherein M is Re, Mn, Cr, Mo, W, Fe, Ru, or Os; Y is a nitrogen-based didentate ligand; A is O, S, Se, or Te; R is  $C_1 \sim C_{16}$  alkyl,  $(CH_2)_n$ -aryl, or  $(CH_2)_n$ -aryl-(O- $C_1 \sim C_{16}$  alkyl) $_p$ , in which n is 0-15, p is 1-3; and m is ~~1, 2, 3, 4, or 5~~ 1-5;

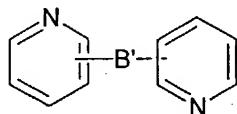
the method comprising:

reacting  $M(CO)_{m+2}$  with a nitrogen-based didentate ligand in the presence of an RAH at an elevated temperature to form the rectangular supramolecule.

14. (Original) The method of claim 13, wherein M is Re and m is 3.

15. (Original) The method of claim 13, wherein RAH is a  $C_1 \sim C_{16}$  aliphatic alcohol.

16. (Original) The method of claim 13, wherein Y is diazine or a ligand of the formula:



wherein B' is a bond, alkyl, alkenyl, alkynyl, cyclyl, heterocyclyl, aryl, or heteroaryl.

Claims 17-21. (Cancelled)